

SENSITIVE BUT UNCLASSIFIED (SBU)**PROPERTY OF THE UNITED STATES GOVERNMENT – FOR OFFICIAL USE ONLY****Do not remove this notice. Properly destroy or return documents when no longer needed.**

DESIGN CRITERIA	SBR WASTE SLUDGE PUMPS	APHIS TANK SOLIDS PUMPS
No. of Pumps	2	2
Installation Type	Semi-permanent tank-mounted with guide rails	Semi-permanent tank-mounted with guide rails
Pump Operation - design capacity liter/mm (gpm) at specified Head mm (feet)	380 @ 5,182 (100) @ (17)	680 (180) @ 26 (1) (pump out) 2,080 (550) @ 14 (0.5) (recirculation)
Pump Curve Points Point A: Point B:	190 @ 6,858 (5) @ (22.5) 570 @ 3,810 (150) @ (12.5)	N/A
Minimum Shut-off Head (at max. speed), one pump, mm (feet)	7,620 (25)	10,668 (35)
Pump Discharge, mm (inches)	50 (4)	100 (4)
Pump Suction Connection, inches	--	--
Maximum, rpm	1,705	1,150
Motor Kilowatt (Horsepower), maximum	1.268 (1.7)	3.728 (5.0)
Minimum Solids Passing, inches		
Minimum Hydraulic Efficiency at Design Operating Point (One Pump Operation)	27%	35% (pump out) 45% (recirculation)
Operation	Constant Speed by SBR CP	Constant Speed, Manual by local Control Panel

- C. All anchor bolts, nuts, washers and sleeves shall be stainless steel furnished by the pump manufacturer and shall be of ample size and strength for the purpose intended. All anchor bolts shall be set by the Contractor in accordance with the manufacturer's instruction.

2.2 SBR WASTE SLUDGE PUMPS

- A. Motor: Pump motors shall be designed for 460 volt, 3 phase, 60 hertz service.
- Each pump motor shall be housed in a watertight casing and shall have Class H insulated windings which shall be moisture resistant. The motor shall be NEMA Design B rated 155°C maximum. The cable entry seal design shall preclude specific torque requirements to insure a watertight and submersible seal. The cable entry shall consist of a single cylindrical elastomer grommet, flanked by